Veterinary Report

University of Illinois - College of Veterinary Medicine, Urbana, Illinois

Vol. 10, No. 1

Cancer Treatment Being Tested at College

A unique device that uses ultra-high-frequency sound to destroy cancer tumors is being tested at the University of Illinois College of Veterinary Medicine.

The experimental cancer killer uses computer-controlled beams of ultrasound to heat tumors deep within the body, said Dr. Gregory Ogilvie, assistant professor clinical and internal veterinary medicine.

"This machine is a great advance over previous hyperthermia devices," Ogilvie said. "Its temperature monitor and computer which controls 16 independently regulated ultrasound emitters allow it to selectively heat cancer tumors without seriously burning surrounding healthy tissues."

Ogilvie, who recently completed preliminary tests of the device, said he is about to begin the first clinical trials on animals with cancer. If these trials show it to be safe and effective, he expects the U.S. Food and Drug Administration will permit its experimental use on human cancer patients.

The one-of-a-kind device is a prototype designed and built by Lab Therm-X Technologies, Champaign, and has been loaned to the college for clinical testing. The instrument is based on several new concepts recently developed at the university, he said.

Abnormally high body or tissue temperature is known as hyperthermia. Researchers have long known that malignant cells are more easily killed by hyperthermia than are most normal cells. For optimum results, cancer tissues must be heated to approximately 110 degrees Fahrenheit for about 30 minutes, he said.

Various means of heating tumors have been tried and have yielded promising results, especially when used in conjunction with radiation or other cancer therapies. However, the difficulty of delivering sufficient heat to the tumor without burning healthy tissues has prevented the widespread use of hyperthermia in cancer care, he said.

"Ultrasound is sound at frequencies thousands of times higher than those audible to humans," he said. "At very low power, ultrasound is used to make diagnostic images of the fetus and internal organs of the body. At much higher levels, however, ultrasound waves will heat tissues they pass through.

"Ultrasound's advantage over other heating methods is its ability to penetrate deep within the body without requiring invasive procedures such as surgery. However, a reliable method of delivering a sufficent dose to malignant tissues without cooking healthy ones has not been available," he said.

Ogilvie believes the instrument he is testing will solve that problem. What makes it unique among other ultrasound hyperthermia devices is its temperature monitor, computer controller and sophisticated ultrasound applicator. These components work together to selectively and safely heat a deep-lying tumor, he said.

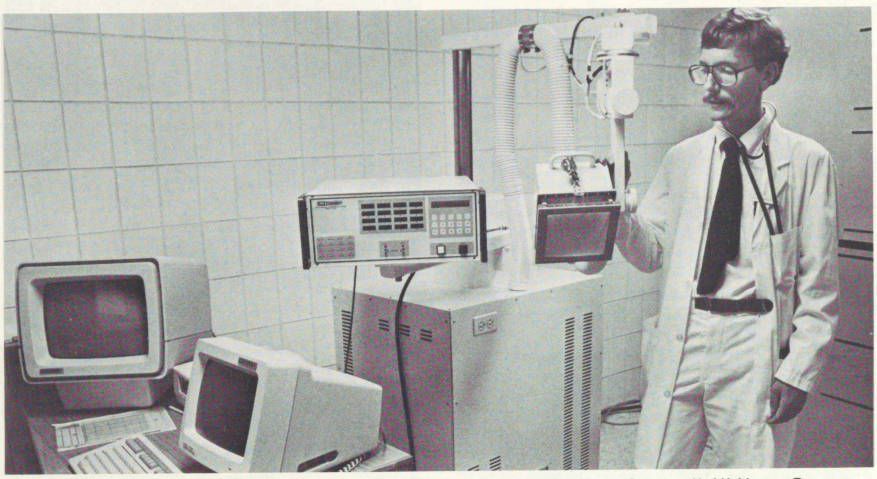
The ultrasound applicator is a water-filled box on the end of a movable arm that allows the applicator to be positioned against the patient's body above the tumor.

Stretched across the face of the box, which measures about 8 inches square, is a thick rubber membrane. Inside the box are 16 ultrasound emitters arranged in a four-by-four array. The water serves to transfer the sound waves from the emitters through the rubber membrane into the patient's tissues.

In use, tiny heat-sensing devices called thermocouples are inserted into the patient's tumor and surrounding tissues. A monitor connected to the probes continuously records the temperatures of these tissues, and sends this information to a computer.

The computer rapidly adjusts the output from each of the 16 ultrasound emitters. This ability to rapidly adjust the intensity and pattern of ultrasound emission enables it to maintain a killing temperature in the entire tumor without causing unacceptable damage to surrounding tissues, he said.

"This flexibility allows us to selectively heat odd-shaped tumors and even gives us the ability to differentially heat parts of the tumor that require greater heat to kill it," Ogilvie said.



Dr Greg Ogilvie with the college's hyperthermia unit — photo by Mary Creswell, UI News Bureau.

"Another unique advantage is its user-friendliness," he said. "It doesn't require an electrical engineer to operate. Physicians can learn to use it without a course in electronics or computer programming."

The design of its hardware and operating system was based on concepts recently developed by researchers at U. of I.'s department of electrical and computer engineering and its College of Veterinary Medicine, said Stephen Goss, Lab Therm-X's vice president for research.

Goss, who said he was one of the principal developers of the overall systems design, the computer software and the ultrasound applicator, earned his undergraduate and doctoral degrees in electrical engineering at the U. of I.

Everett Burdette, president of Lab Therm-X, said the first commercial system should retail for about $150,000 when marketed, perhaps by the end of 1986. Burdette expects the FDA will approve its use on human cancer patients, on a voluntary and experimental basis, later this year.

Ogilvie said he is working with Lab Therm-X and scientists in the department of electrical and computer engineering on the next generation of ultrasound cancer killers. Under development is a phased-array ultrasound emitter, which can electronically aim ultrasound beams with much greater precision.

"Though phased-array emitters themselves don't move, the beam of energy they emit is focused and swept electronically over the target tissue with great precision," he said. "Such a system will enable us to deliver much greater accuracy and less harm to normal tissues."

On the drawing boards are several other systems using microwaves as well as ultrasound to produce hyperthermia under different conditions. No one kind of energy is best for all medical treatments. However, all will employ the computer-controlled array systems being developed by Lab Therm-X and the U. of I., Burdette said. *(This article was prepared and released in September by Andrew Skolnick, life sciences editor at the UIUC News Bureau.*

Editor's Notes: Dr. Ogilvie, in cooperation with fellow researchers such as Dr. Ralph Richardson of Purdue University, Indiana, is also studying the relationship between heat and cancer drugs. Heat is known to enhance the effect of these drugs. The researchers hope to determine just how much heat is needed to enhance the drugs' effects. They hope to reach a point where hyperthermia treatments can be used in conjunction with a drug program so that much lower dosages of drugs can be given. As a result, the patient will have fewer side effects from drugs during treatment, providing the animal with a better quality of life during treatment and fulfilling one of Dr. Ogilvie's goals. Currently, some drugs produce so many side effects that their use in pets is inadvisable. Lower dosages may make it possible to use these drugs effectively without decreasing the quality of an animal's life.

UI veterinary faculty involved in the development of this equipment included Dr. Kenneth Holmes in veterinary biosciences and Dr. Wayne Tompkins in veterinary pathobiology.)

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The Changing of the Guard

Safanie Retires

"In our personal discussions, when we want to equate some lecturer with greatness, we are apt to say, 'He's like a Safanie.' " — Sam and Nancy Lerner, DVM's, Foster City, CA, U of I '68.

Dr. Alvin H. Safanie, a fixture at the University of Illinois College of Veterinary Medicine since 1952, retired at the end of August 1985. For 33 years, Dr. Safanie had taught veterinary anatomy to students at the college.

During a retirement reception held in his honor, Dr. Safanie was presented with an assortment of gifts, including a captain's cap to wear during his sailing expeditions and a gag "maggot on a leash". Another of his gifts, a bound book of letters from students he had taught, helped clarify the maggot for the uninitiated. Numerous comments alluded to his practice of having students imagine a maggot crawling through various areas of an animal's body in order to help them visualize the animal's anatomy. Although many of the former students commented that Dr. Safanie's course was a difficult one for them, they all agreed that his dedication and enthusiasm had inspired them to learn the material.

Dr. Safanie first joined the University of Illinois staff as an instructor in 1952, after completing his DVM degree at Cornell University, Ithaca, New York in 1947 and his M.S. degree in anatomy at Michigan State University in 1952. By 1962, Dr. Safanie had completed his PhD degree at the University of Illinois. He rose through the ranks until he reached professor in 1971.

Students at the college selected him as the recipient of the Norden Distinguished Teacher Award in 1964 and again in 1968.

Besides the teaching skills he is known for, Dr. Safanie also co-authored a variety of publications, served on numerous college committees, and participated in selected research projects. He is a member of the American Veterinary Medical Association, the Illinois State Veterinary Medical Association, the American Association of Veterinary Anatomists, and the World Association of Veterinary Anatomists. He was selected to the Phi Zeta and Sigma Xi national honor societies and is listed in *American Men and Women of Science*.

Watrachs Retire

A married couple who have been fixtures at the University of Illinois College of Veterinary Medicine since its origin retired this year. Dr. Adolf M. Watrach, professor of veterinary pathobiology, and his wife, Marian A. Watrach, research associate in veterinary pathobiology, completed more than 30 years apiece of service to the college on April 21, 1985.

Dr. Watrach joined the faculty in 1951 shortly after the college was formed in 1948. He had received his veterinary degree in 1948 from the Royal Veterinary College, Edinburgh, Scotland. By 1958, he had completed his PhD degree in pathology from the University of Glascow, Scotland. Throughout his tenure at Illinois, Watrach taught pathology classes, wrote a variety of research papers, and served as a pathologist in the college's Diagnostic Laboratory. He was an electron microscopist, performing a variety of ultrasound studies on viruses. He also became a diplomate of the American College of Veterinary Pathologists, was selected to the Sigma Xi, Phi Zeta and Gamma Sigma Delta honor societies, and was listed in *Who's Who in the Midwest* and in *American Men and Women of Science*.

Formerly Marian A. Norwich, Mrs. Watrach came to the University of Illinois College of Veterinary Medicine in 1952 as an instructor in the department of veterinary pathology and hygiene. She married Dr. Watrach in 1955, the same year she earned her M.S. degree in biology from the University of Illinois. By 1961, her title had changed to research associate, and Mrs. Watrach assisted with numerous research projects and publications. She was selected to the Sigma Delta Epsilon honor society. Although her primary duties involved research, she also provided laboratory instruction to graduate students.

veterinary report

Published four times annually by the University of Illinois College of Veterinary Medicine for its students, faculty, alumni and friends.

Editors: Terry Rathgeber and Tania Banak.

Hanson Retires

Dr. Lyle E. Hanson, associate dean for veterinary research and professor, retired August 31, 1985. He had been on the college faculty since 1950, shortly after the college was formed in 1948.

Prior to assuming the research dean position in 1979, Dr. Hanson was head of the Department of Veterinary Pathology and Hygiene from 1967 to 1979. He has achieved international recognition for his work with poultry diseases and leptospirosis. In addition to authoring or co-authoring more than 100 research papers and 14 book chapters during his tenure, Dr. Hanson taught microbiology to veterinary students and served on numerous college committees. He has served as consultant for various organizations, including work with the Pan American Health Organization (PAHO) and the World Health Organization (WHO) in recent years. His work with PAHO in particular has resulted in numerous visits to Jamaica as that country tries to control a human health problem with leptospirosis.

Dr. Hanson, who earned his DVM degree from Michigan State University in 1950 and his M.S. and Ph.D. degrees from the University of Illinois in 1953 and 1957 respectively, is a diplomate of the American College of Veterinary Microbiologists and also helped organize that association. He has been selected to the Phi Zeta, Sigma Xi and Gamma Sigma Delta honor societies and is a member of the American Veterinary Medical Association, the Illinois State Veterinary Medical Association, the U.S. Animal Health Association, the American Society of Microbiologists, the Conference of Research Workers of North America, and served on the University Facilities Planning Committee. He is also listed in *Who's Who in America* and in *American Men of Science*.

Conference Dedicated to Hanson

The 36th North Central Avian Disease Conference, held this summer, was dedicated to Dr. L. E Hanson, retiring as professor of veterinary pathobiology and associate dean of research at the University of Illinois, Dr. M. S. Hofstad, Iowa State University, and Dr. R. W. Winterfield, Purdue University. All three were cited for having made numerous contributions to the study of avian diseases.

Dr. Ben Pomeroy, University of Minnesota, dedicated the meeting and presented each of the honorees with a plaque commemorating the occasion.

Manning Retires

Dr. John P. Manning, associate professor of veterinary clinical medicine, has retired from his position following 31 years of service and a career that has spanned much of the College of Veterinary Medicine's existence.

Dr. Manning joined the college's staff in 1954 as the college was graduating its third class. He had earned his DVM from Kansas State University in 1951. After practicing in Kansas and serving a short stint as assistant laboratory director at Jensen Salisbury Laboratory, Inc., he began what would prove to be a long relationship with the College.

In 1958, Dr. Manning earned an MS degree in physiology from the University of Illinois. He was actively involved in the college's teaching program, teaching courses in clinical practice, radiology, orthopedic surgery, and reproductive obstetrics to students.

By the 1970's, Dr. Manning had developed an interest in large animal ophthalmology. In 1975, he took a 6-month sabbatical at the University of Minnesota to study in this field. He subsequently taught equine ophthalmology to fourth year veterinary students at Illinois.

Throughout his career, Dr. Manning served on numerous college and university committees, supervised several graduate students, and completed a wide variety of research projects in surgery and ophthalmology, publications, and continuing education talks.

Dr. Manning is an active member of the Eastern Illinois Veterinary Medical Association, the American Veterinary Medical Association, the American Association of Equine Practitioners, and the American College of Veterinary Radiology (ACVR). He became board certified in 1965 and served the ACVR as president in 1972. He also served on the Board of Governing Directors of the Illinois Thoroughbred Breeders and Owners Association from 1973-1980.

Dr. Manning plans to continue his association with the University of Illinois College of Veterinary

Alumni Honor Three at Fall Conference

Three veterinarians were honored with special awards during the University of Illinois College of Veterinary Medicine Alumni Association's annual meeting on Thursday, October 3, 1985. Traditionally, the meeting coincides with the college's annual Fall Conference for Veterinarians which draws veterinary alumni from across the nation. This year's conference was the largest ever, attracting over 240 registrants.

The alumni association's Merit Award for extraordinary interest and loyalty to the College of Veterinary Medicine and for having attained outstanding success and distinction in the profession of veterinary medicine was presented to Dr. Lloyd C. Helper, professor and associate dean of academic affairs at the college. Dr. Ray D. Hatch, professor emeritus of veterinary clinical medicine at the college, and Dr. Alvin H. Safanie, professor emeritus of veterinary biosciences at the college, each received a Service Award for meritorious service to the profession of veterinary medicine.

Dr. Lloyd Helper was unable to attend the meeting so his daughter, Dr. Patricia Helper, a 1984 Illinois graduate, accepted his Merit Award for him. A 1955 graduate of the University of Illinois College of Veterinary Medicine, Dr. Lloyd Helper has been a member of the veterinary clinical faculty at Illinois since that time except for a two-year stint in the United States Air Force Veterinary Corps from 1956-58. He earned an MS degree in veterinary clinical medicine in 1961, served as a post-doctoral fellow in comparative ophthalmic pathology at Stanford University School of Medicine during 1969-70, and became a charter diplomate of the American College of Veterinary Ophthalmologists in 1971. He is currently serving as that group's president. Dr. Helper spent many years as chief of the U of I College of Veterinary Medicine's ophthalmology section, relinquishing the position only upon assuming his current position as associate dean of student affairs at the college. In addition to having a daughter graduate from veterinary school, Dr. Helper's son, David, also graduated from the U of I College of Veterinary Medicine, receiving his degree in 1983.

Dr. Hatch served the University of Illinois College of Veterinary Medicine from its origins in 1948. Prior to his retirement in 1977, he served as head of the college's ambulatory clinic. During his tenure at the college, he also served as acting head of both the department of veterinary clinical medicine and the department of anatomy and histology. Dr. Hatch earned both his DVM and MS degrees from Iowa State University. He taught at Iowa State and Virginia Polytechnic Institute prior to taking a position at the University of Illinois. Dr. Hatch is a member of the American Veterinary Medical Association, the Illinois State Veterinary Medical Association, the Eastern Illinois Veterinary Medical Association, and the Conference and Research Workers in America.

Dr. Safanie recently retired after 33 years of teaching at the college. He joined the University of Illinois staff in 1952, after completing his DVM degree at Cornell University, Ithaca, New York in 1947 and his M.S. degree in anatomy at Michigan State University in 1952. By 1962, Dr. Safanie had completed his PhD degree at the University of Illinois. He rose through the ranks from instructor, reaching professor status in 1971. He was well known for his teaching skills, being selected for the Norden Distinguished Teacher Award in 1964 and again in 1968.

Dr. Bill Augustine (left), president of the UI College of Veterinary Medicine Alumni Association, smiles after presenting Service Awards for meritorious service to the profession of veterinary medicine to Dr. Ray D. Hatch (center), professor emeritus of veterinary clinical medicine at the University of Illinois College of Veterinary Medicine, and Dr. Alvin H. Safanie (right), professor emeritus of veterinary biosciences

Thumbnail Biographical Sketches

Nine Recent Additions to Faculty

Dr. Nancy M. Bailey is assistant dean for student affairs. She joined the staff this summer after serving as placement director in the School of Life Sciences at the University of Illinois for five years. At Life Sciences, she was involved in recruiting, advising and counseling students. Dr. Bailey completed her undergraduate studies at the University of Wisconsin and received an MA and PhD in educational policy studies from the University of Illinois.

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Dr. Timothy A. Bertram joined the faculty in mid-October as an assistant professor of veterinary pathology. He came to the college from a position at the National Animal Disease Center in Ames, Iowa, where he was the project leader in respiratory diseases of swine. Dr. Bertram received his DVM degree from Iowa State University in 1979. He spent one year as a toxicology resident in the Iowa State Veterinary Diagnostic Laboratory before joining the staff at NADC. Dr. Bertram completed his PhD at Iowa State University in 1983. He is interested in neutrophil and platelet biology in the porcine lung and studies porcine bacterial pneumonia.

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Dr. Jonathon H. Foreman is assistant professor in equine medicine and surgery, joining the college's faculty in July. He came to the University of Illinois from a position in the department of food animal and equine medicine at North Carolina State University School of Veterinary Medicine. Dr. Foreman received his DVM degree from the University of Georgia in 1981 and his MS degree from Washington State University in 1984. His interests include exercise-related cardiopulmonary and musculoskeletal diseases in Thoroughbred racehorses.

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Dr. Jerome A. Goldsboro is assistant director of laboratory medicine as of January 1986. Since 1982, he had been staff veterinarian for the National Aeronautics and Space Administration at Ames Research Center. At Ames, he supervised the animal colonies used for NASA contracts and related experiments aboard the space shuttle flights. Dr. Goldsboro provided medical expertise in the management of shuttle animal experiments, reviewed research proposals for life sciences investigations in space, planned and executed experiments, developed hardware, and provided logistical expertise on flying animal payloads in space. A 1964 graduate of the Tuskegee Institute School of Veterinary Medicine, Dr. Goldsboro was a lieutenant colonel in the United States Army Veterinary Corps.

A diplomate of the American College of Laboratory Animal Medicine, Dr. Goldsboro completed a postdoctoral preceptorship and residency in laboratory animal medicine at the United States Army Research and Development Command from 1970 to 1974. Prior to his NASA assignment, Dr. Goldsboro spent three years as head of the veterinary medicine department at the United States Naval Medical Research Unit No. 2 in Taipei, Taiwan, and five years as chief of animal resources at the Letterman Army Institute of Research at the Presidio in San Francisco.

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Dr. John M. Losonsky is associate professor of radiology in veterinary clinical medicine. He came to Illinois from a position as associate professor of radiology at the University of Georgia College of Veterinary Medicine. A 1970 graduate of Michigan State University College of Veterinary Medicine, he practiced for three years in Pennsylvania before beginning graduate studies at the University of Georgia. Dr. Losonsky received his MS from Georgia in 1977 and became a diplomate of the American College of Veterinary Radiologists in the same year. His current research interests include post-treatment radiographic changes in heartworm diseases and ultrasonography of canine kidneys.

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Dr. Gordon C. Peterson is an assistant professor of food animal medicine and surgery. A 1981 graduate of the University of Illinois College of Veterinary Medicine, he practiced in Indiana after graduation before returning to graduate studies and a clinical position at the University of Illinois. Dr. Peterson completed his graduate program in May 1985. His research interests include ruminant renal problems and the pharmacokinetics of antibiotics and nonsteroidal anti-inflammatory agents in food animals.

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Dr. Gail Scherba is the director of the veterinary virology diagnostic laboratory. She came to the University of Illinois in mid-October from a position at The National Institutes of Health, where she was working on the molecular virology of the simean form of AIDS. Dr. Scherba received her DVM degree in 1979 and her PhD in virology in 1983 from Purdue University. She completed her graduate training at Purdue University with Dr. D. P. Gustafson on pseudorabies in swine.

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Dr. D. David Sisson is a cardiologist and assistant professor of small animal medicine. He'll join the staff in late February. Dr. Sisson is currently on the faculty at Washington State University. He completed an internship at Cornell after receiving his DVM degree from the University of California-Davis in 1975. Dr. Sisson practiced for five years in Fair Oaks and Carmichael, California, before returning to the University of California-Davis in 1983, where he spent two years in a cardiovascular medicine residency and a year as instructor of cardiovascular medicine. A diplomate in cardiology of the American College of Veterinary Internal Medicine, his professional interests include cardiovascular, pulmonary, and internal medicine.

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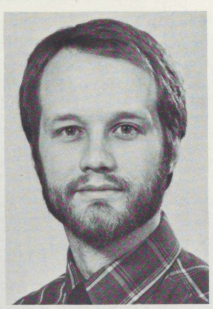
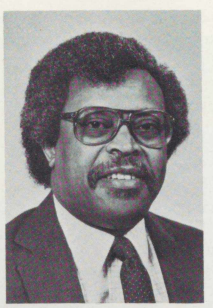
Dr. Gene M. Zinn is an extension veterinarian and station veterinarian for Dixon Springs Agricultural Center, replacing the retired Dr. Manford Mansfield. Dr. Zinn came to the University of Illinois from a position in food animal medicine and surgery at the University of Missouri. He received his DVM degree from Iowa State University in 1956 and practiced in Bathany, Missouri, from 1956 to 1978 except for a three-year stint at the University of Missouri in 1967 to 1970 to complete a PhD. His research work at the University of Missouri included projects in swine colibacillosis, feeder pig management, and eperythrozoonosis.

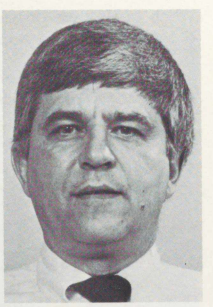
Dr. Bailey



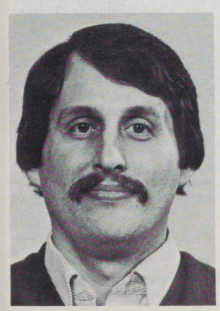
Dr. Bertram



Dr. Goldsboro

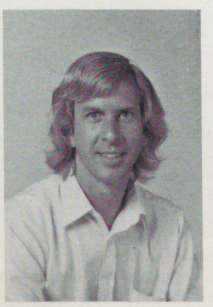


Dr. Losonsky

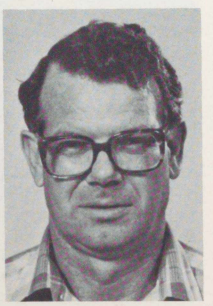


Dr. Peterson

Dr. Scherba



Dr. Sisson



Dr. Zinn

Vet Pathobiology Named as WHO Center

The Department of Veterinary Pathobiology at the University of Illinois College of Veterinary Medicine has been named as a Collaborating Center on the Safety of Biological Controls to Mammals by the World Health Organization (WHO) for a four year term. Dr. John Shadduck, head of the department, has been a WHO consultant on the same subject for ten years, and will serve as head of the center. Designation of the department as a Collaborating Center expands the relationship to the other departmental faculty members and it gives WHO a cadre of experts to call on rapidly when needed.

As a Collaborating Center, the department will serve as a reference center on mammalian safety of biological control agents. The department's mission will be three-fold.

—Analyze for WHO all data on mammalian safety of biological control agents sent by the Organization for review and evaluation.

—Provide informal recommendations and advice on problems that may arise regarding mammalian safety.

—Contribute to the preparation of guidelines for the safe and effective use of biological agents during vector control operations.

The department will also be expected to contribute to the development of protocols for evaluating for safety of biological control agents and their formulations. In particular, the department will suggest safety evaluation protocols for various categories of biological control agents.

Finally, the department will be expected to contribute, through appropriate technical services agreements, to the testing and evaluating of the safety to mammals of promising biological control agents and their formulations.

The WHO program seeks alternatives to chemical pesticides by investigating biological agents that are natural disease-producing agents in target insects. Essentially, the WHO approach is targeting biological warfare against insects that are causing human and animal suffering. WHO has taken this approach because chemical pesticides are indiscriminately poisonous, expensive and in many cases ineffective as insects have developed resistance against products. Biological agents are specifically directed against the pest insect and are harmless to man and animals.

One example of a biological control agent that most gardeners are familiar with is thuricide, a bacillus that is effective against the worms that attack cauliflower, cabbage and broccoli in the home garden. It was one of the first effective natural pesticides developed for vegetables and is completely safe to humans. Dr. Shadduck first became involved with the WHO program when he worked with an agent to control the flies that spread elephantiasis and mosquitoes that spread malaria.

Once WHO has identified a potential biological agent, they can call on consultants to develop tests that will assure the product is specific against the target insect and safe for man and other animals.

Beecham Research Award Presented To Ken Todd

Dr. Kenneth S. Todd Jr., professor of veterinary parasitology and assistant head of veterinary pathobiology, recently received the 1985 Beecham Award for Research Excellence. He is the first recipient of this award at Illinois. The award recipient is chosen on the basis of veterinary medicine-related research that has been performed within the past two years and which shows promise of attaining national recognition.

research on the mouse coccidium, *Eimeria vermiformis*. He and Dr. Mark Kuhlenschmidt, assistant professor of veterinary pathobiology at the college, are using the parasite to study the molecular basis of host-parasite interaction through the isolation and characterization of cell surface receptors which are responsible for specific parasite recognition and invasion of target cells. His approach should yield not only a better understanding of the way these parasites work but also an opportunity to develop diagnostic and prophylactic agents for the parasite. The knowledge gained from the mouse coccidia studies should be directly applicable to the control of various coccidia infections in food animals.

1984 Veterinary Medicine Achievement Fund Donors

As final details are wrapped up on the 1985 Achievement Fund, let us belatedly recognize our 1984 donors. As we'll soon report, 1985 has been a super year with dramatic increases in the College's Achievement Fund and Deans Club membership. The Companion Animal Memorial Fund has made many friends for the participating practices and the College, while inititating a fund for companion animal research. The development of numerous large donations, trusts and wills promises larger returns in coming years.

Thank you, graduates and friends, for your continued generous support of your College of Veterinary Medicine. You may feel confident that your contributions will continue to build one of the nation's premier veterinary programs.

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Noyes, Dr. Jack D., Barrington, IL
Osthus, Dr. Wesley T., Clinton, IL
Palmer, Dr. Chester F., Malta, IL
Perry, Dr. Curtis A., Racine, WI
Pfeffer, Dr. Joanne G., Jacksonville, IL
Prymula, Dr. Adam, Calumet City, IL
Reed, Dr. Laurence, Chesterton, IN
Rehn, Dr. John W., Alpha, IL
Renegar, Mr. Charles, Elmhurst, IL
Rodgers, Dr. Calvin M., Blandinsville, IL
Rodgers, Dr. Miles E., II, Campbell, CA
Sava, Dr. Felix R., Darien, CT
Schleder, Dr. Delmar W., Chenoa, IL
Sefcik, Dr. Richard L., Arlington Heights, IL
Shaw, Dr. Lloyd, Woodstock, IL
Singletary, Dr. Donald L., East Earl, PA
Small, Dr. James, Cary, NC
Smithe, Dr. Alan J., Barrington, IL
Snodgrass, Dr. Rodger J., Chicago, IL
Stevenson, Dr. Craig A., Sandwich, IL
Stout, Dr. Larry D., Cahokia, IL
Swift, Dr. Seth S., Bloomington, IL
Szanto, Dr. Joseph, Chesterland, OH
Trayser, Dr. Charles V., Fremont, CA
Tuttle, Dr. Kerry L., Peoria, IL
Webster, Dr. Richard S., Des Plaines, IL
Willard, Dr. James E., Chicago Heights, IL
Wood, Dr. Byford E., Breese, IL
Wright, Dr. Thompson, T., Des Plaines, IL
Zuschlag, Dr. Walter E., Palos Hills, IL

DONORS:
Berne, Bernard, Wilmette, IL
Beroza, Dr. Gregory A., Worcester, MA
Biehl, Dr. Michael L., Urbana, IL
Bollmeier, Dr. James A., O'Fallon, IL
Bybee, Ms. A. Christensen, Springfield, IL
Carlin, Dr. Stanley E., Edwards, CA
Croft, Vicki F., Pullman, WA
Curtis, Dr. Heather H., Shullsburg, WI
Donaldson, Mr. L. L., Middleburg, VA
Ferraro, Dr. Cosimo, Oak Park, IL
Fetzer, Dr. Larry L., Arlington Heights, IL
Finley, Dr. John B. Carterville, IL
Flanzer, Dr. Octavia Miller, Chazy, NY
Hahn, Dr. Robert H., Morrison, IL
Killian, Dr. Joseph A., San Francisco, CA
Koch, Dr. Myron W., Ursa, IL
Malacrida, Dr. Louis R., Paramus, NJ
Mayberry, Dr. David J., Charlotte, NC
Mayer, Dr. Glenn D., Chicago, IL
Mears, Dr. Bruce R., Hannibal, MO
Peterson, Dr. Craig A., Pekin, IL
Peterson, Dr. Suzanne (Rouse), Upper Arlington, OH
Popovic, Dr. Neven A., Rockville, MD
Renegar, Dr. Wayne R., Hanson, MA
Reynolds, Dr. Robert J., Kenosha, WI
Riebold, Dr. Thomas W., Philomath, OR
Schwarzentraub, Dr. Dennis J., Peoria, IL
Shire, Dr. Gary M., Bloomingdale, IL
Siefert, Dr. Dale F., Gresham, OR
Stamp, Dr. Gary L., San Antonio, TX
Stevens, Dr. Jeoffery J., Clinton, WI
Thomas, Dr. Lewis P., Charleston, WV
Ziegler, Dr. Ralph F., San Antonio, TX

MEMORIALS:
Chicago Vet Med Assoc, Lake Forest, IL
Gubelman, Ms. Roberta, Coal City, IL
Johnson, Larry C., Dwight, IL
In Memory of Helen Kamerer

We have tried to make this listing as complete and accurate as possible. If we have inadvertently omitted any contributor, we apologize and ask that you notify us so that we can correct our records.

Whatever Happened To. . . . . ?

Have you ever wondered what happened to some of your old classmates? Did so-and-so ever get married? Did she move? Did he change his business? Wouldn't it be easy to keep in touch with old friends if you had their correct address right at your fingertips?

We've asked the Harris Publishing Company to do just that — to compile an accurate, up-to-date directory listing all our living alumni with current address, phone number, even business information.

To accomplish this, you will soon be getting a questionnaire in the mail asking for current biographical data. Please fill it out and return it as soon as possible. This will be your personal biographical information to be printed in the college's upcoming *Alumni Directory* which will be ready for release in the winter of 1986.

You and your classmates will be listed alphabetically, geographically and by class year. Each listing will contain name, class year, degree(s), home address, phone number and business information, if applicable.

It is important to the school and to your old friends that you are a part of this directory — so please be sure to complete and return your questionnaire by April, 1986.

Alumni Notes

Dr. Ellen Waller (1980) has been with the Peace Corps in Zaire since October, 1984. She is working with the same dairy project that another UI alum — **Dr. Pam Bouchard** (1979) — started. Dr. Bouchard trained Dr. Waller before she left Zaire. They were both stationed in the mountains on the eastern side of Zaire along the western perimeter of the Great Rift Valley. The veterinary and animal husbandry project involves native Zebu dairy cattle, dairy goats and some Brown Swiss at higher altitudes.

o

Dr. Dennis Brooks (1980) is head of veterinary ophthalmology at the University of Tennessee College of Veterinary Medicine Department of Urban Practice.

o

Dr. Richard Fink (1952) is running unopposed for president-elect of AVMA in 1986. A small animal practitioner in Whittier, California and a past president of both the California and Southern California Veterinary Medical Associations, Dr. Fink represents District X on the AVMA Board.

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Dr. Wally Brandt (1955), Hoffman-LaRoche, Mutley, New Jersey, is serving as a director of the American Association of Industrial Veterinarians.

o

Dr. Ralph Vinson (1957) is serving a 6 year term as an at-large member of the AVMA Council on Biologic and Therapeutic Agents. Dr. Vinson is a swine practitioner in Oneida, Ill.

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Two alums are serving as officers of the American College of Laboratory Animal Medicine. **Dr. C. Max Lang**, 1961, is secretary-treasurer of the College, while **Dr. William E. Britz**, 1959, is a member of the board of directors. Dr. Lang is professor and chairman of the department of comparative medicine at the Milton S. Hershey Medical Center of Pennsylvania State University. Dr. Britz is with the Research Equipment Company in Bryan, Texas.

o

Dr. Douglas L. Feller (1977) is product registration manager, Animal Products Regulatory Services, for Lilly Research Laboratories and Elanco Products Company, both divisions of Eli Lilly and Company. He is headquartered in Indianapolis. Dr. Feller joined Lilly in 1981 in field research in Minneapolis.

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Dr. Wilfred T. (Bill) Springer (1962) has been recognized for his research work at the Louisiana State University Agricultural Center. He was given the 1985 First Mississippi Corporation Award for his research in the field of infectious diseases of poultry. His citation called attention to the significant contributions he has made to Louisiana's $150 million poultry industry. A professor at Louisiana State University College of Veterinary Medicine, Dr. Springer joined the staff there in 1968.

o

Dr. Jean E. Sessions (1970) of Dickerson, Maryland, was a nominee for the 1985 Outstanding Woman Veterinarian of the Year. Early in the year, she was recognized by her peers as Maryland Veterinarian of the Year.

Are You a Member of the Alumni Association?

When you join the University of Illinois Alumni Association, you automatically become a member of the College of Veterinary Medicine Alumni Association. As a member of the two alumni associations, you receive:

. . . the Illinois Alumni News,
. . . notification of alumni club meetings in your area,
. . . invitations to special events for alumni.

One-year single membership — $15 (20% will be credited to the Veterinary Medicine Alumni Assoc.)

One-year husband/wife membership — $20 (20% will be credited to the Veterinary Medicine Alumni Assoc.)

Single life membership — $200
(Installment plan: $220 — $10 down, four yearly payments of $52.50) (16.22% will be credited to the Veterinary Medicine Alumni Assoc.)

Husband/wife life membership — $225
(Installment plan: $245 — $10 down, four yearly payments of $58.75) (14.3% will be credited to the Veterinary Medicine Alumni Assoc.)

Name _____

Major _____ Year of degree _____

Address _____ City _____ State _____ Zip _____

Spouse's name (if an alumnus) _____

Spouse's college _____ Spouse's major _____ Year of degree _____

Please fill in and return with your check for membership to:
University of Illinois Alumni Association,
227 Illini Union, 1401 West Green, Urbana, IL 61801
(Make your check payable to the University of Illinois Alumni Association)

Rare Peregrine Treated at Clinic

A rare peregrine falcon is resting comfortably in the hospital thanks to a good Samaritan and University of Illinois veterinarians.

The falcon's leg was badly broken, apparently in an encounter with an automobile, said the bird's surgeon, Dr. Douglas MacCoy, assistant professor of veterinary clinical medicine at the U. of I.

"Just moments before it would have become a pancake on a Chicago throughway, the crippled falcon was rescued by a passerby who stopped his car and darted into traffic after it," MacCoy said.

On Friday afternoon (Oct. 4), MacCoy repaired two fractures on the bird's right leg, one above the foot and a nastier splintered one above the knee. It recovered well from anesthesia and appeared to have no other serious injuries. It is expected to pull through, he said.

"The bird was rescued by the good Samaritan Wednesday morning. He took it to the Lincoln Park zoo," MacCoy said. "Dr. Peregrine Wolff, a veterinarian at the zoo, took charge of the bird and called me. She drove down here with it on Thursday."

MacCoy said he expects the bird's leg will heal. Broken legs usually aren't as great a problem for birds as are broken wings: birds, especially peregrines, which dive on their prey at speeds greater than 100 mph, put much more stress on wing bones than they do on leg bones, he said.

MacCoy said the falcon's leg should be strong enough for it to be returned to the wild in about six weeks. Since it will lose considerable strength through inactivity, it will have to be reconditioned before it can be released. For reconditioning, he plans to send it to Cornell University, where it will go through pre-release training in the Peregrine Reintroduction Program.

"Peregrine falcons are an endangered species, but this one's an even rarer prize," said MacCoy. There's no identifying band on its leg, which means it was born in the wild and is not likely a product of the captive breeding program that has reintroduced the majestic birds back into the United States, from where they had become virtually extinct."

There's a problem with such captive breeding programs, he said. Because of inbreeding, the variety of genes in the species gene pool remains small. A small gene pool greatly reduces the chance of surviving a virulent new disease or other environmental threats.

"Every member of the wild peregrine population, therefore, remains a great asset that must be preserved to help this magnificent species survive," MacCoy said.

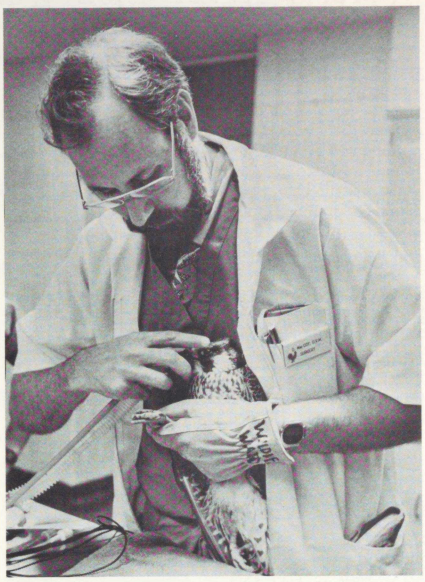
Once plentiful in the United States, peregrine falcons came within an eggshell's width of extinction, thanks to the chemical DDT. The now-banned insecticide worked its way up through the food chain, accumulating in the larger predators, including birds of prey. DDT interferes with the deposit of calcium in the eggshells of many birds, weakening the shells and causing them to crack under the weight of the would be parents, he said.

Peregrine falcons have made a fair comeback because of the captive breeding program at Cornell University. Offspring of captive birds are reared until old enough to survive on their own. They are then conditioned and released in suitable areas of the country.

Peregrines have been released in New York and other cities, where they do surprisingly well. Since peregrine falcons naturally rest and nest on cliffs from which they dive upon their prey, they are quite at home roosting on ledges outside of the offices of the Fortune 500. From these posts, they dine on a virtually unlimited food source — pigeons.

"This bird was no Chicagoan," MacCoy said. Although plans exist for releasing some in the windy city, no native peregrine falcons presently exist in Illinois. This young one was just passing through, probably from northern Canada, on its way south for the winter. These majestic birds earned their common name peregrine — which means "traveling" — by their migratory habits.

The exact age of the bird is unknown, although MacCoy believes it was born this year because of the amount of juvenile plumage it still wears. Its sex cannot be determined because of its youth.



Dr. Douglas MacCoy administers anesthesia to an injured peregrine falcon — photo by Mary Creswell, UI News Bureau.

As one of two veterinarians at the U. of I. in charge of wildlife rehabilitation, MacCoy has had much experience patching up the broken bones and other injuries of wildlife, including ducks and geese. But never before has he treated such an important patient at the university, he said. *(This story was prepared by Andrew Skolnick, life sciences editor at the University of Illinois at Urbana-Champaign News Bureau).*

Veterinary Volunteers Pitch in at FarmAid

Excitement began to build several weeks before Farm Aid, the massive benefit concert for farmers held Sunday, September 22 at Memorial Stadium on the University of Illinois campus in Champaign, Ill. Tickets to the event were sold out the first day they went on sale. And university personnel had their hands full trying to coordinate the numerous chores and precautionary measures that needed to be completed on short notice.

Providing enthusiastic and welcome support in the final days prior to Farm Aid were some 100 volunteers from the University of Illinois College of Veterinary Medicine. Frank Reilly, a third year veterinary student, organized the group, which was the largest volunteer group to be involved and the only group representing a college at the University of Illinois.

Ignoring the books for an evening, veterinary volunteers arrived at Memorial Stadium on the Thursday evening prior to the concert expecting to help lay a protective covering over the stadium's Astroturf surface. However, when the rubber-like, protective "Geotec" surface was unloaded from trucks, officials discovered that it was not clean enough to place on the Astroturf. It had been shipped uncleaned from a previous concert in Cleveland, Ohio.

"We ended up spending four hours sweeping the Geotec and picking gum and other dirt off of it before we could even think about laying it out in the stadium," said Vicki Vanek, a third year veterinary student who was among the volunteers. "I didn't get home until 1:30 a.m."

The massive project was continued on Friday evening as the volunteers finished laying the Geotec over the stadium's Astroturf and then covered that with a fireproof tarp. There was more to be done on Saturday as well. The volunteers erected barriers around the massive, rotatable stage (the same one used for Live Aid in Philadelphia) and around the scaffolding towers which were to elevate TV cameras above the crowd during the concert. They finished just hours before the gates opened on Sunday morning.

"There's no way we could have put on the show without them," noted Randy Hawkins, an aide to Illinois Governor James Thompson. "The veterinary volunteers were reliable. They kept working until the job was done. And when the chips were down, they turned nasty, dirty work into fun."

Why did they put in so much time? Reilly summed up the group's feelings when he said, "We're doing it for the farmers. As future veterinarians, we realize the farmers are the people we'll be working for."

As it turned out, they received a more immediate, though unexpected, reward for their efforts. Despite earlier statements to the contrary, the volunteers were given passes for the 14-hour Farm Aid concert.

The concert was a haze to many of the exhausted volunteers, however. They were glad to be participants in the historical event, but were just as glad to get home for some well-deserved rest.

During a break, University of Illinois veterinary student volunteer workers relax in front of the satellite dish which broadcast the FarmAid program on Sept. 22, 1985. The volunteers worked many hours to help set up the stadium and stage for the benefit concert — photo by Sam Giannavola, UI College of Veterinary Medicine.

Dates to Remember

April 19 – Annual Veterinary Medicine Open House. 9 a.m.—4 p.m. Veterinary Medicine Teaching Hospital. 1986 Co-chairmen: Todd Harris and Larry Fleming, third year students. For more information, contact Tania Banak (217-333-2907).

April 29 – Symposia on Alternative Careers in Veterinary Medicine. Sponsored by Phi Zeta-Mu chapter in conjunction with the College of Veterinary Medicine. 1:30 p.m. Annual banquet will be held that evening at the Round Barn Convention Center. For more information, contact Dr. Erwin Small (217-333-6763).

May 25 – Graduation, University of Illinois College of Veterinary Medicine.

September 18-19 – Annual University of Illinois Veterinary Fall Conference. Saturday **September 20** football foe is Big 8 powerhouse Nebraska. Watch your mailings from veterinary extension for information on motel reservations, football tickets and registration details. 1986 program chairman is Dr. Jay Brown. For information: 217/333-2907.

College Briefs

DR. LLOYD E. DAVIS, professor of clinical pharmacology, is serving a second five-year term on the United States Pharmacopeial Convention's (USPC) Committee of Revision, representing veterinary medicine. The USPC is the independent nonprofit scientific organization that sets the legally enforceable standards for drugs in the United States. It comprises delegates from each college and state association of medicine and pharmacy, 23 national organizations, and 9 agencies of the federal government.

The Committee of Revision is responsible for ensuring the "accuracy and adequacy" of the *United States Pharmacopeia and the National Formulary;* the compendia of legally recognized standards for drug quality, purity, and strength; and the USP Drug Information (DI) System of drug references and patient education materials. The committee is the decision-making body on all USP-NF and USP DI revisions and additions made possible by advances in science, therapy, and technology.

The 1985 to 1990 General Committee of Revision comprises 25 members qualified in the medical sciences, 1 member representative of consumer interest, and 62 members qualified in the pharmaceutical and allied sciences, together with the executive director, William M. Heller, who chairs the committee. Of the newly elected committeemen, 52 are from academic institutions or in private practice, 26 are from industry, and 2 are from associations.

Dr. Davis also chairs a 12-member panel of the Drug Information Division of USPC concerned with veterinary therapeutics. He is a founding fellow and former president of the American College of Veterinary Pharmacology and Therapeutics.

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DR. EDWIN C. HAHN was 1 of 60 scientists invited to the EMBO workshop on parvoviruses held at Grangeneuve, Switzerland, in September. He presented a poster entitled "Contribution of Aleutian Disease Virus to the Induction of Anti-DNA Antibody in Mink." He also presented a seminar on cellular immunity against pseudorabies at the Institute for Medical Virology, University of Heidelberg, Germany. Collaboration has been initiated with Professor Darai in Heidelberg on the virulence of deletion mutants of herpesvirus.

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DEAN RICHARD E. DIERKS was in Germany and Austria in October as a consultant for the U.S. Surgeon General and the U.S. Army Veterinary Corps. He attended a meeting with Army Veterinary Corps personnel at Berstchgarten, West Germany, and then visited military installations in Germany and Austria.

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DR. BRENDAN MCKIERNAN, head of small animal medicine, attended a September Food and Drug Administration meeting at the National Institutes of Health in Bethesda, Maryland, updating work on theophylline. Research work that Drs. McKiernan and **Stephen Kneller** had done on the intestinal transit time of drugs was presented during the meeting.

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DR. ERWIN SMALL, associate dean and professor, was in Israel and Egypt with the Society of International Veterinary Symposia in October. Their first scientific session was held in conjunction with the opening of the new veterinary school at Rehovot, Israel, and the second session was held with faculty of the veterinary school at Cairo University in Giza, Egypt. Dr. Small serves the society as executive secretary and program coordinator.

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DR. WILLIAM C. WAGNER, professor and head of the department of veterinary biosciences, is the president of the national society of Phi Zeta for 1985 to 1987. Phi Zeta is the veterinary medicine honor society dedicated to excellence in scholarship, research, and education in the veterinary profession. Chapters of the society are located at all veterinary colleges in North America. Dr. Wagner first became a member of Phi Zeta while on the faculty at the New York State Veterinary College at Cornell University, his alma mater. Phi Zeta was originated by a group of students at Cornell University in 1925.

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DR. MARK JAMES, visiting research assistant professor of veterinary pathobiology, and his wife, **DR. SONIA MONTENEGRO-JAMES**, visiting assistant professor of veterinary pathobiology, attended the 11th Conference of the World Association for the Advancement of Veterinary Parasitology in Rio de Janeiro, Brazil, in August. Dr. James was chairman of the Plenary Session on the Pathogenesis of Animal Parasitism. Dr. Montenegro-James presented a paper entitled "Bovine Babesiosis: Vaccination with Culture-Derived Exoantigens."

DR. WILLIAM C. WAGNER was in West Germany from October 21 to November 9 to continue collaborative research on hormone synthesis in the placenta during late pregnancy in the cow. Dr. Wagner was working with scientists in the Institut fur Tierzucht (Institute for Animal Breeding), Mariensee, and the University of Giessen while in Germany. He also attended the installation of Professor Dr. E. Grunert as dean of the veterinary school in Hannover.

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DR. LLOYD E. DAVIS was recently appointed to the Morris Animal Foundation's Scientific Advisory Board. He will serve a three-year term on the six-member board. The advisory board members, comprised of veterinarians and scientists, meet annually to review research proposals that are submitted to the Foundation and to recommend which projects should receive funding. They also make recommendations on which general research directions are most appropriate for support by the Foundation.

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DR. BORJE K. GUSTAFSSON, professor and head of veterinary clinical medicine, is at the University of Zurich in Switzerland from November to May 1986 for a sabbatical leave. He will do research with Drs. Konrad Zerobin and Rico Thun, both in the University of Zurich College of Veterinary Medicine Department of Reproduction. The projects they will work on include "Uterine Infections in the Cow" and Parturition in the Cow: Pain and Stress-Related Factors."

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Attending a three-day conference in late August at the Laveran International Foundation, Annecy, France, on hemotropic diseases were **Dean Richard E. Dierks, Drs. Miodrag Ristic, Cynthia J. Holland, Mark A. James, Sonia Montenegro-James, Ibulaimu Kakoma,** and **Frederico J. Montealegre** of Veterinary Pathobiology and **Lowell P. Hager, James H. Nichols,** and **Lisa M. Shamansky** of Biochemistry. Before the conference, Dean Dierks and Dr. Ristic attended the board meeting of the Lavernan International Foundation.

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DR. DAVID BANE, assistant professor of veterinary clinical medicine, attended the National Pork Producers Council meeting on sulfonamide use in swine at Des Moines in mid-December. He also addressed the annual meeting of the Arkansas Pork Producers in Little Rock, Arkansas, in January.

o

DR. JOSEPH HARARI received the first Robert S. Brodey Resident Research Award during the Veterinary Cancer Society meeting at Purdue University last summer. The award, consisting of a plaque and a $200 honorarium, was presented in recognition of outstanding research in veterinary clinical oncology. At the time, Dr. Harari was completing his surgery residency at the college. He is now responsible for surgery in a Seattle, Washington, specialty practice.

Dr. Harari was selected for the award on the basis of his presentation at the Veterinary Cancer Society meeting entitled "Clinical Pathologic Features of 26 Canine Thyroid Tumors." He credited **Drs. Jon Patterson, Robert Rosenthal** and **Greg Ogilvie**, present or former faculty members, as assisting him with the project which resulted in the award-winning presentation. The award was recently developed in honor of the late Robert S. Brodey, a renowned veterinary oncologist and surgeon from the University of Pennsylvania. Brodey was one of the founding members of the Veterinary Cancer Society and made numerous contributions to veterinary medicine and surgery. The award is sponsored by the Veterinary Cancer Society and is underwritten by Norden Laboratories, Lincoln, Nebraska.

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DR. TED LOCK became the first three-time winner of the Norden Distinguished Teacher Award at the University of Illinois during 1985. Dr. Lock previously received the award in 1975 and 1980. An award recipient is selected annually at each of the nation's 27 veterinary colleges on the basis of outstanding teaching ability, as well as character and leadership qualities. Each recipient receives a plaque and a $500 honorarium from Norden Laboratories, the sponsors of the award.

Dr. Lock is associate professor in veterinary clinical medicine and serves as head of the field service and theriogenology section. He is active in the college's instructional program, teaching portions of the practical clinical sessions for fourth-year students, as well as theriogenology and obstetrics for third-year students. He teaches a senior elective course in equine reproduction and also involves students in field trips to Illinois horse farms and to Dixon Springs Agricultural Center to study reproductive problems.

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DR. JAMES HIXON, associate professor of veterinary biosciences, is in the midst of a nine-month sabbatical leave at the Agricultural and Food Research Council, Institute of Animal Physiology at Babraham, Cambridge, United Kingdom. He is working with Dr. Tony Flint, a principal scientific officer at the Institute, on factors associated with the maintenance of early pregnancy in cattle and sheep.

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DR. AYSE KAYPMAZ, a microbiologist and associate professor from Istanbul University, Aksaray-Istanbul, Turkey, joined the Veterinary Pathobiology Department as a visiting research scientist in June. During her one-year stay, she is working with **Dr. Eric Vimr**, assistant professor of veterinary pathobiology, who shares her interest in the study of *Escherichia coli.*

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DR. GARY JACKSON, professor of veterinary biosciences, is back from sabbatical. He was in England from July through December 1985, investigating how animals use internal biological clocks to regulate their breeding season in cooperation with Dr. Brian Follett and Dr. Trevor Nicholls of the AFRC Research Group on Photoperiodism and Reproduction, Department of Zoology, Bristol University, England.

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DR. GREGORY K. OGILVIE, assistant professor of veterinary clinical medicine, has been selected as a fellow in the University of Illinois' Center for Advanced Study for the spring semester. One of four UIUC faculty members selected campus wide, Dr. Ogilvie will work on experimental and clinical evaluation of selective ultrasound hyperthermia. Fellows are selected in annual competition to pursue independent scholarship and professional activity.

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DR. ERWIN SMALL was recognized in the December issue of Veterinary Economics as a member of the magazine's own Who's Who in Veterinary Medicine. The national poll of practitioners yielded the names of individuals who, because of prominence in their community or profession, have captured interest in the world of veterinary medicine. Also recognized in the survey is 1960 alum, **Dr. Robert Pensinger**. Dr. Pensinger is a cardiologist practicing at the Ocean Animal Clinic in Santa Cruz, Calif.

Nonacademic Recognition Program Held

Fourteen nonacademic staff members were honored during the College's ninth annual Nonacademic Recognition Program in August. One staff member received the Robert and Lucy Graham Award, three were honored for 15 years of service to the university, eight were honored for five years of service, and two individuals were recognized for their years of service prior to retirement.

The Robert and Lucy Graham Award, which was established in 1957 and is presented annually to a nonacademic member of the college staff who has made outstanding contributions to the college, was presented to Linda Klippert, a veterinary technician II at the college.

Receiving a pin and certificate for 15 years of service to the university were Lloyd Duitsman, distribution clerk for administration; John Hoffman, medical laboratory technician II in veterinary pathobiology; and Richard Keen, radiographer IV in veterinary clinical medicine.

Those receiving a certificate for five years of service included Timothy Chilton, lab animal care technician I; Gary Cutler, storekeeper I in administration; Maureen Drummond, vet. technician II in veterinary clinical medicine; Janet Jowers, vet. technician I in veterinary biosciences; Margie Ketchum, storekeeper I in veterinary clinical medicine; Michael Weidenburner, lab animal caretaker in administration; and Jacquelyn Yarbrough, vet, technician II in veterinary clinical medicine.

Retirees Rose Holmes, secretary in veterinary clinical medicine, and Doris Richards, administrative clerk, were also recognized. Holmes had worked for the university for 19 years, 9 of which were served at the college, while Richards had accumulated 28 years of service at the veterinary college.

The College of Veterinary Medicine was the first on campus to implement an employee recognition program. Dean Richard E. Dierks established the recognition program to publicly proclaim the College's appreciation for the contribution of its nonacademic staff. Dean Dierks opened this year's program with thanks to nonacademics for their dedicated support of the college's programs.